AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously presented) A low-temperature oxidation-reduction catalyst comprising:
a noble metal selected from the group consisting of platinum, palladium, gold, silver and rhodium;
a mixed-metal oxide layer comprising:
a first metal oxide which possesses more than one stable oxidation state consisting of tin oxide;
a second metal oxide consisting of zirconium oxide; and
a third metal oxide selected from the group consisting of cerium oxide, hafnium oxide, lanthanum oxide, and ruthenium oxide;
said first, second and third metal oxide each being an active catalytic component of said mixed-metal oxide layer; and
wherein said first metal oxide, second metal oxide, and third metal oxide have a mass ratio of about 1.0: 0.5: 0.5.

2. (Canceled)

3. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1, wherein said third metal oxide is cerium oxide.

4. (Canceled)

5. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1, further comprising a promoter selected from the group consisting of oxides of the metals of the transition series of the periodic table of elements, wherein the promoter is present in an amount sufficient to provide from about 1 to about 12 atom percent of promoter metal to tin metal.

6. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1, wherein said noble metal is from about 1 to about 50 weight percent, based on the total weight of the catalyst; and the first, second and third metal oxide are collectively from about 50 to about 99 weight percent, based on the total weight of the catalyst.

7. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1, for use in the oxidation of carbon monoxide.

8. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the oxidation of formaldehyde.

9. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the oxidation of volatile organic compounds.

10. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 9, wherein the volatile organic compounds are hydrocarbons.

11. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the reduction of nitrogen oxide species.

12-16 (Canceled)

17. (Currently Amended) A low-temperature oxidation-reduction catalyst comprising:

a noble metal selected from the group consisting of platinum, palladium, gold, silver and rhodium;

a solely mixed-metal oxide layer comprising:

a first metal oxide which possesses more than one stable oxidation state consisting of tin oxide;

a second metal oxide consisting of zirconium oxide; and

a third metal oxide selected from the group consisting of cerium oxide, hafnium oxide, lanthanum oxide, and ruthenium oxide;

said first, second and third metal oxide each being an active catalytic component of said mixed-metal oxide layer; and

wherein said noble metal is from about 1 to about 50 weight percent, based on the total weight of the catalyst; and the first, second and third metal oxide are collectively from about 50 to about 99 weight percent, based on the total weight of the catalyst.

18. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17, wherein said third metal oxide is cerium oxide.

19. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17, wherein said first metal oxide, second metal oxide, and third metal oxide have a mass ratio of about 1.0: 0.5: 0.5.

20. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17, further comprising a promoter selected from the group consisting of oxides of the metals of the transition series of the periodic table of elements, wherein the promoter is present in an amount sufficient to provide from about 1 to about 12 atom percent of promoter metal to tin metal.

21. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17, for use in the oxidation of carbon monoxide.

22. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17 for use in the oxidation of formaldehyde.

23. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 17 for use in the oxidation of volatile organic compounds.

24. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 23, wherein the volatile organic compounds are hydrocarbons.

25. (Previously presented) A low-temperature oxidation-reduction catalyst of claim 17 for use in the reduction of nitrogen oxide species.